

50 Ohm Coaxial Cable

P/N 310701



CONSTRUCTION DETAILS

- Conductor:** 7 AWG solid copper clad aluminum
- Dielectric:** High temperature fluoropolymer
- Shield 1:** Flat silver-plated copper braid
- Shield 2:** Aluminum tape
- Shield 3:** Silver-plated copper braid
- Jacket:** Purple high temperature fluoropolymer

ENVIRONMENTAL DETAILS

- » ECS avionics cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

PHYSICAL CHARACTERISTICS

- Outer Diameter:** 0.485 in. nominal
- Bend Radius:** 3.0 in. nominal
- Weight:** 18 lbs/100 ft. nominal
- Temperature Range:** -55° to +150°C
- Skydrol Resistant:** Yes

ELECTRICAL CHARACTERISTICS

- Impedance:** 50.0 Ohms nominal
- Capacitance:** 25 pF/ft. nominal
- DC Resistance:** 0.85 Ohms/1000 ft. nominal
- Time Delay:** 1.25 ns/ft. nominal
- Velocity of Propagation:** 81% nominal
- Shield Effectiveness:** > 90 dB
- Attenuation:** 1.0 dB/100 ft. @ 150 MHz (nominal)
- 3.1 dB/100 ft. @ 1000 MHz
- 3.9 dB/100 ft. @ 1600 MHz
- 4.6 dB/100 ft. @ 2400 MHz
- 7.2 dB/100 ft. @ 5000 MHz

CONNECTOR TYPES FOR CABLE 310701

| Connector Type | Connector P/N |
|------------------|---------------|
| TNC 90° | CTR002 |
| TNC 90° Extended | N/A |
| TNC 90° Long | N/A |
| TNC Straight | CTS002 |
| TNC Panel Mount | N/A |
| TNC Bulkhead | BTS002 |
| C 90° | CCR002 |
| C Straight | N/A |

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|------------------|---------------|
| BNC 90° | N/A |
| BNC 90° Extended | N/A |
| BNC 90° Long | N/A |
| BNC Straight | N/A |
| BNC Bulkhead | N/A |
| N 90° | CNR002 |
| N Straight | CNS002 |
| N Bulkhead | BNS002 |

| Connector Type | Connector P/N |
|--------------------|---------------|
| ARINC 404 Size 1 | N/A |
| ARINC 600 Size 1 | LO102 |
| ARINC 600 Size 1RF | N/A |
| ARINC 600 Size 5 | N/A |
| SMA 90° | N/A |
| SMA Straight | N/A |
| HN 90° | N/A |
| ARINC 600 Size 8 | N/A |

